



**FLAMEMASTER**  
 Flamemaster Corp.  
 13576 Desmond Street  
 Pacoima, CA 91331 - USA

**SAFETY DATA SHEET**  
**MARCH 24, 2017**

**File: CS3205BB GSA 07-10**  
 INTEGRAL FUEL TANK  
 SEALANT CATALYST  
 (Dichromate Cure)

**Section -1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

- 1.1. Product Identifier: CS-3205 Part B Class B (all application times) / (Dichromate Cure)  
 - Product Name: Integral Fuel Tank Sealant / Catalyst Part B / Dichromate Cure  
 - Product reference: CS-3205-B

**1.2. Product Use:**

-Integral Fuel Tank Sealant / Dichromate Cure

**1.3. Manufacturer's Name:**

**CAGE Code: 14439**  
**Flamemaster Corp.**  
**Chem Seal Division**  
**13576 Desmond Street**  
**Pacoima, CA 91333 – USA**

**1.3.1 Suppliers Name ( if not manufacturer )**

**Technical Contact:**

**Flamemaster Corp.**  
 Tel: 818-890-1401  
 Fax: 818-890-6001  
[www.flamemaster.com](http://www.flamemaster.com)

**1.4. Emergency Telephone:**

Chemtrec – Chemtrec International  
 800-424-9300 ( North America)  
 703-527-3887 (Outside North America))

Specification:	AMS-S-8802	CATALYST PARTB	CLASS B	ALL	(DICHROMATE CURE)
<b>NSN:</b>		8030-01-154-9253 CS3205 B1/2 PINT	8030-01-154-9254 CS3205 B1/2 QUART	8030-01-154-9252 CS3205 B1/2 6OZ	8030-01-156-6229 CS3205 B1/2 GALLON
		8030-01-154-9256 CS3205 B2 PINT	8030-01-154-9245 CS3205 B2 QUART	8030-01-154-9255 CS3205 B2 6OZ	8030-01-154-9246 CS3205 B2 GALLON

## Section -2. HAZARD ( S ) IDENTIFICATION

ASPIRATION HAZARD - CATEGORY 1

SKIN CORROSION/IRRITATION - Category 1B

ACUTE TOXICITY (DERMAL) - CATEGORY 4,

ACUTE TOXICITY (INHALATION) - CATEGORY 3

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

SKIN SENSITIZATION - CATEGORY 1

CARCINOGENICITY - CATEGORY 1A

TOXIC TO REPRODUCTION (UNBORN CHILD) - CATEGORY 1B

SPECIFIC TARGET ORGAN TOXICITY (STOT) REPEATED EXPOSURE - CATEGORY 2

ACUTE AQUATIC TOXICITY (CATEGORY 1)

CHRONIC AQUATIC TOXICITY (CATEGORY 1)

**OSHA / HCS STATUS :** THIS MATERIAL IS CONSIDERED HAZARDOUS BY THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

Human and Environmental Hazards:

### HAZARD STATEMENTS:

May be fatal if swallowed and enters airways.

Toxic if Inhaled

Harmful if in contact with skin

Causes severe skin burns and eye damage.

May cause an allergic skin reaction

May cause cancer

May damage the unborn child

May cause damage to organs through prolonged or repeated exposure

VERY TOXIC TO AQUATIC LIFE

VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

### HAZARD PICTOGRAMS:



### SIGNAL WORD:

**DANGER**

Full text of P statements associated to this compound:

- P101+P102+P103: If medical advice is needed, have product container or label at hand. Keep out of reach of children.
- Read label before use
- P202: Do not handle until all safety precautions have been read and understood
- P210: Keep away from heat/sparks/open flames and hot surfaces-No Smoking
- P240:Ground/bond container and receiving equipment
- P261+P262+P263+P264:Avoid breathing dust/fumes/gas/mist/vapours/spray.Do not get in eyes , on skin, or on clothing. Avoid contact during pregnancy/while nursing. Wash thoroughly after handling.
- P270+P271+P273: Do not eat drink or smoke when using this product. Use only outdoors or in a well ventilated area. Avoid release to the environment.
- P281+P280: Use personal protective equipment as required. Wear protective gloves/ protective clothing/ eye protection/face protection
- P301+P310+P331: If swallowed: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting.
- P305+P351+P338+P315: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,if present and easy to do. Continue rinsing. Get immediate medical advice attention.
- P304+P340+P314: If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell
- P342+P340+P315: If experiencing respiratory symptoms: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice/attention.
- P302+P352: If on skin: Wash with plenty of soap and water

- P306+P361: If on clothing: Remove/ take off immediately all contaminated clothing
- P402+P403+P404: Store in a dry place. Store in a well ventilated space. Store in a closed container.
- P233+P234+P235: Keep container tightly closed. Keep only in original container. Keep cool.

**Supplemental Label Information :**

Sanding and grinding dusts may be harmful if inhaled. Always wear adequate safety equipment when working with this or any other material. Chromium (+6) is classified as a known carcinogenic compound by NTP, IARC and OSHA. This material emits toxic fumes when heated or burned.

**HAZARDS NOT OTHERWISE CLASSIFIED:** OXIDISING POTENTIAL: Contact with combustible material may result in fire. Keep away from combustible materials. This material increases the risk of fire and may aid in combustion.

**Other Hazards that do not result in classification:**

Prolonged or repeated exposure may dry skin and / or cause irritation

**Section -3. COMPOSITION / INFORMATION ON INGREDIENTS**

**Chemical family :** Mixture of organic compounds

For the hazards of the composition, ( SDS see Section 2).

## GHS CLASSIFICATION:

<b>SODIUM DICHROMATE DIHYDRATE</b>	Cas#7789-12-0	EC#234-190-3	<60% by weight
OXIDIZING SOLIDS (CATEGORY 2), H272			
ACUTE TOXICITY, ORAL (CATEGORY 2), H300			
ACUTE TOXICITY, INHALATION (CATEGORY 4), H332			
ACUTE TOXICITY, DERMAL (CATEGORY 4), H312			
SKIN CORROSION (CATEGORY 1B), H314			
SERIOUS EYE DAMAGE (CATEGORY 1), H318			
RESPIRATORY SENSITISATION (CATEGORY 1), H334			
GERM CELL MUTAGENICITY (CATEGORY 1B), H340			
CARCINOGENICITY (CATEGORY 1B), H350			
REPRODUCTIVE TOXICITY (CATEGORY 1B), H360			
SPECIFIC TARGET ORGAN TOXICITY- REPEATED EXPOSURE-(STOT RE), INHALATION (CATEGORY 1), H372			
ACUTE AQUATIC TOXICITY (CATEGORY 1), H400			
CHRONIC AQUATIC TOXICITY (CATEGORY 1), H410			

<b>CHEMICAL NAME: TERPHENYL, HYDROGENATED</b>	CAS# 61788-32-7	EC# 262-967-7	<50% by weight
AQUATIC CHRONIC (CATEGORY 4) - H413			

<b>CHEMICAL NAME: CARBON BLACK</b>	CAS# 1333-86-4	EC# 215-609-9	<15% by weight
NOT CLASSIFIED			

<b>CHEMICAL NAME: TERPHENYL</b>	CAS# 26140-60-3	EC# 247-477-3	<10% by weight
AQUATIC ACUTE (CATEGORY 1) - H400			
AQUATIC CHRONIC (CATEGORY 1) - H410			

<b>CHEMICAL NAME: POLYPHENYL, QUATER AND HIGHER</b>	CAS# 68956-74-1		<10% by weight
---	-----------------	--	----------------

---

---

**Section -4. FIRST-AID MEASURES**

---

---

**General:** When in doubt or symptoms persist, seek medical attention. Have Safety Data Sheet information available. Never give anything by mouth to an unconscious person.

**Inhalation:** Remove to fresh air, if breathing has stopped, administer artificial respiration. Give nothing by mouth, seek immediate medical attention.

**Eye contact:** Check for and remove any contact lenses. Irrigate with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek immediate medical attention.

**Skin contact:** Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleaners. Do NOT use aromatic solvents, thinners or petroleum products.

**Ingestion:** If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Persons who have inhaled or otherwise been exposed to decomposition products from a fire, may exhibit delayed symptoms. Medical surveillance for a minimum of 48 hours is recommended.

---

---

**Section -5. FIRE-FIGHTING MEASURES**

---

---

**Extinguishing agents**

**Recommended:** Universal resistant foam, CO<sub>2</sub>, water, powder.

**Agents to avoid:** None known

**Attention**

Fire will produce dense black smoke. Exposure to decomposition products may cause a Health Hazard. Fire fighters should wear self-contained breathing apparatus.

Water mist may be used to cool closed containers to prevent pressure build-up and possible auto-ignition and explosion when exposed to extreme heat.

Do not weld, flame cut or expose to extreme heat or ignition sources, empty containers which have contained flammable products.

Do not allow run-off from fire fighting to enter drains or water courses. This material is toxic to aquatic life with long lasting effects.

**Hazardous decomposition products include:** Carbon Dioxide, Carbon Monoxide, Nitrogen Oxides, Metal Oxide / Oxides, Smoke, Toxic Fumes

---

---

**Section -6. ACCIDENTAL RELEASE MEASURES**

---

---

Eliminate sources of ignition, ventilate the area. Avoid breathing vapors by using appropriate respiratory protective equipment. Refer to protective measures listed in sections 7 & 8.

Collect spill with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with local regulations (see section 13). Do not allow to enter drains or watercourses.

Clean-up with a detergent/ water mix ; avoid use of aromatic solvents. If the product enters drains or watercourses, inform authority with jurisdiction in accordance with state / local regulations.

---

---

**Section -7. HANDLING AND STORAGE**

---

---

**7.1 Handling:**

No smoking, eating and drinking during handling.

Avoid exposure during pregnancy.

Keep containers tightly closed. Prior to movement containers which are opened should be carefully resealed.

Avoid skin and eye contact. Avoid inhalation in case of exposure to vapor and spray mist.

Handle and open containers with care to avoid spilling of contents. Never use pressure to empty; container is not a pressure vessel. Clean or discard contaminated clothing and shoes.

Preparation may charge electrostatically; always use grounding/ bonding/ earthing leads when transferring contents of containers. Operators should wear antistatic footwear and clothing, and floors should be electrically conductive.

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapor in air, and avoid vapor concentration higher than the Occupational Exposure Limits.

Use in areas from which local sources of ignition have been excluded. Electrical equipment including lighting should be protected to the appropriate standard. Isolate from sources of heat, sparks and open flame. Non-sparking tools are recommended.

---

---

## 7.2 Storage:

Observe label precautions. Store between 32/F and 95/F ( 0/C and 35/C ) in a dry, clean and well ventilated place, away from sources of heat, ignition, and direct sunlight. For flash points below 23 °C store in an area constructed to the appropriate standard

---

---

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

---

---

### 8.1 Engineering measures:

Avoid the inhalation of vapors, spray mist and particulates. Achieve by local exhaust ventilation providing good general extraction as to keep air-borne concentration below the Occupational Exposure Limits (OEL).

If local / area ventilation is not sufficient to comply with OEL, suitable (NIOSH) respiratory protection to be provided. Always provide suitable (NIOSH) respiratory protection when sanding, grinding or otherwise abrading cured material.

---

### 8.2 Exposure limits

---

#### Work place exposure limits ( 8 hour )

Substance	ACGIH TLV
SODIUM DICHROMATE DIHYDRATE	.005mg/m <sup>3</sup> (OSHA) SPECIFICALLY REGULATED CHEMICALS/CARCINOGENS .05mg/m <sup>3</sup> (ACGIH)
Terphenyl, Hydrogenated	TWA: 4.9 mg/m <sup>3</sup> 8 hours TWA: 0.5 ppm 8 hours
Carbon Black	TWA: 3mg/m <sup>3</sup> 8 hours ( Inhalable Fraction)
Terphenyl	C: 5mg/m <sup>3</sup> C: 0.53 ppm

### 8.3 Personal protection

All Personal Protective Equipment, including Respiratory Protection, used to control exposure to hazardous substances must be selected to meet the requirements of OSHA Regulations.

#### Respiratory protection :

Appropriate respiratory protection equipment should be selected according to the type of contaminants, following regulatory (OSHA / NIOSH) and manufacturers instructions including proper fitting of devices.

#### Hand protection :

For prolonged or repeated contact, recommend gloves type: polyvinyl alcohol, nitrile rubber, latex rubber (some people may exhibit sensitivity to Latex). Barrier creams may help to protect exposed areas of the skin. However, they should not be applied post exposure.

#### Eye protection :

Use safety glasses with side shields to protect against splashes. Face shields may also be worn.

#### Skin protection :

Protective clothing made of antistatic and fire resistant fibers. All parts of the body should be washed after contact. Use good hygiene and industrial practices, keep working clothes clean.

---

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

---

---

- Physical state at: 68 ° F (20 ° C) Liquid
  - Flash point: 200 ° F (93 ° C) Method: TCC
  - Specific gravity at: 68 ° F (20 ° C) N/A
  - Vapor Density: N/A
  - Lower Explosive Limit (% vol.): N/A
  - Upper Explosive Limit (% vol.): N/A
  - Miscibility in water at 20 ° C: NEGLIGIBLE
  - Material Supports Combustion. : Yes
- Ph : N/A
  - % VOLATILE BY VOLUME - N/A
  - Vapor pressure at: 68 ° F (20 ° C) N/A
  - Color: BLACK
  - Appearance: PASTE
  - Odor: NEGLIGIBLE OILY ODOR
  - Boiling Point: UNAVAILABLE

---

---

**10. STABILITY AND REACTIVITY**

---

---

Stable under recommended storage and handling conditions (see SDS section 7). In case of combustion, may produce hazardous decomposition products such as :

- Carbon monoxide
- Oxides of nitrogen
- Smoke
- Metal Oxide / Oxides
- Carbon Dioxide
- Toxic Fumes

---

---

**11. TOXICOLOGICAL INFORMATION**

---

---

There are no data available on the preparation itself. See (SDS Sections 3 and 15) for details.

Exposure to component solvents vapors at concentrations in excess of the stated Occupational Exposure Limits may result in adverse health

**ACUTE TOXICITY:**

PRODUCT:	RESULT	SPECIES	DOSE	EXPOSURE
Sodium Dichromate Dihydrate	LD 50 ORAL	Rat	50 mg/kg	-
Terphenyl,Hydrogenated	LD50 ORAL	Rat	17500 mg/kg	-
Carbon Black	LD50 Dermal	Rabbit	>3 g/kg	-
	LD50 Oral	Rat	>15400mg/kg	-
Terphenyl	LD50 Oral	Rat	>1400 mg/kg	-

**GERM CELL MUTAGENICITY: SODIUM DICHROMATE DIHYDRATE**

May alter genetic material

In vivo tests showed mutagenic effects

Rat - Liver Damage, DNA Damage

Hamster - Lungs, Sister Chromatid Exchange

Rat - DNA Damage

<b>CARCINOGENICITY: INGREDIENT</b>	<b>IARC</b>	<b>OSHA</b>	<b>NTP</b>
Sodium Dichromate Dihydrate	1	SPECIFICALLY REGULATED CARCINOGEN	KNOWN TO BE HUMAN CARCINOGEN
Carbon Black, Respirable Powder	2B	-	-

**REPRODUCTIVE TOXICITY: SODIUM DICHROMATE DIHYDRATE**

May cause congenital malformation in fetus  
 Presumed human reproductive toxicant  
 May cause reproductive disorders

**SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) :**

SODIUM DICHROMATE DIHYDRATE - Inhalation - Causes damage to organs through prolonged or repeated exposure.

Toxic if Inhaled  
 Harmful if in contact with skin  
 Causes serious eye irritation  
 May cause an allergic skin reaction  
 May cause cancer  
 May damage the unborn child  
 May cause damage to organs through prolonged or repeated exposure

**Target Organs:** lungs, skin, central nervous system, blood, kidneys, nervous system, liver, spleen, lymphatic system, cardiovascular system, upper respiratory tract, bone marrow, eye, lens, cornea

**Acute Toxicity Estimates:** No Data Available for the Mixture Itself

---



---

**12. ECOLOGICAL INFORMATION**

---



---

There is no data available on the preparation itself. Do not allow the product to enter drains or water ways. See (SDS Sections 3 and 15)

Never allow this material, any solutions, or any by-products, as well as any run-off, to come into contact with soil, waterways, wildlife habitats, drains, sewers, and / or the ocean. Avoid release into environment.

Empty containers and/or liners may contain material residue. Empty contaminated packagings thoroughly. Dispose in accordance with all Federal, State, and local health and environmental regulations.

**Bioaccumulative Potential: Not Available**

**Mobility in Soil:**

Not Available

**Other Adverse effects:**

Sodium Dichromate Dihydrate- Very Toxic to Aquatic Life with Long Lasting Effects.

---

---

**13. DISPOSAL CONSIDERATIONS**

---

---

Recommended incineration or land fill as hazardous waste per Federal, State and local regulations.

React with base and dispose of as hazardous waste per Federal, State and local regulations. Recommended incineration or land fill.

Empty containers and/or liners may contain material residue. Empty contaminated packagings thoroughly. Dispose in accordance with all Federal, State, and local health and environmental regulations.

Never allow this material, any solutions, or any by-products, as well as any run-off, to come into contact with soil, waterways, wildlife habitats, drains, sewers, and / or the ocean. Avoid release into environment.

---

---

**14. TRANSPORT INFORMATION**

---

---

**DOT:** Not regulated

**UN Number:** Not regulated

**NMFC:** 4620 SUB.5 – CL.60

**Schedule B #** 3506.91.0000

**IMDG**

**UN NUMBER** - 3082

**UN PROPER SHIPPING NAME** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Sodium dichromate dihydrate)

**TRANSPORT CLASS** - 9

**PACKING GROUP** - III

**ENVIRONMENTAL HAZARDS** - YES

**MARINE POLLUTANT** - SODIUM DICHROMATE DIHYDRATE

**IATA**

**UN NUMBER** - 3082

**UN PROPER SHIPPING NAME** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Sodium dichromate dihydrate)

**TRANSPORT CLASS** - 9

**PACKING GROUP** - III

**ENVIRONMENTAL HAZARDS** - YES

**MARINE POLLUTANT** - SODIUM DICHROMATE DIHYDRATE

---

---

**15. REGULATORY INFORMATION**

---

---

**SARA 311/312**

Classification: Immediate (acute) health hazard

Delayed (chronic) health hazard

**Composition of Ingredients :**

Sodium Dichromate Dihydrate: Reactivity Hazard  
Acute Health Hazard  
Chronic Health Hazard

Polyphenyls, quater and higher : Immediate (acute) health hazard

Carbon Black : Fire Hazard  
Delayed (chronic) health hazard

Terphenyl : Immediate (acute) health hazard



**US Regulations Federal**

chemical (s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 (SARA)	Chemical Name	CAS No	Weight %	Threshold limit (Reporting Value)
	Sodium Dichromate Dihydrate	7789-12-0	<60%	Unknown

SARA notifications must remain attached to this SDS. Any copies and /or distribution of this SDS must include all SARA notifications.

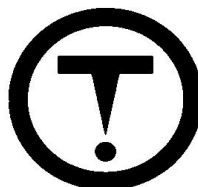
All remaining Constituents are non-hazardous per FED-STD-313 All Constituents are listed in TSCA inventory; complete mixture is excluded Per TSCA Par. 710.4 (d) 95 (6) (7) Constituents are not listed in TSCA 12b CORR. LIST

**US Regulations State**

California Proposition 65 (Developmental – Female)	<b>SODIUM DICHROMATE DIHYDRATE</b>	7789-12-0	< 60%	>= 1.0%
Massachusetts	<b>SODIUM DICHROMATE DIHYDRATE</b>	7789-12-0	< 60%	>= 1.0%
New Jersey	<b>SODIUM DICHROMATE DIHYDRATE</b>	7789-12-0	< 60%	>= 1.0%
Pennsylvania	<b>SODIUM DICHROMATE DIHYDRATE</b>	7789-12-0	< 60%	>= 1.0%
Rhode Island	<b>SODIUM DICHROMATE DIHYDRATE</b>	7789-12-0	< 60%	>= 1.0%

**California Prop 65 Warning :**

This Product contains one or more ingredients known by the state of California to cause cancer, birth defects or other reproductive harm.



materials Division 2: Materials Causing  
Other Toxic Effects:  
Sodium Dichromate Dihydrate Cas# 7789-12-0

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR. Listed National Pollutant Release Inventory (NPRI):  
Sodium Dichromate Dihydrate Cas# 7789-12-0

---

**Section 16 Other Information**

---

HEALTH 3  
FLAMMABILITY 0  
REACTIVITY 0

HEALTH 3  
FLAMMABILITY 0  
REACTIVITY 0

Customer and / or end user is responsible  
for determining PPE.

**NFPA****HMIS**

Preparer-Flamemaster/Compliance  
Rev A April 2015  
Supercedes(Conversion)

Revision Notes: A

Conversion to ANSI format

Containers: Plastic Jars, Metal Cans, Cartridge Kits

Maximum Container Size: 50 Gallons/190 Liters

**Notice to reader:**

**This SDS is provided without any warranty expressed or implied regarding its correctness or suitability for specific situations. The conditions of handling, storage, use and disposal are beyond our control and may be beyond our knowledge.**

**In all cases, the user must determine the applicability of all information and recommendations contained herein as well as the suitability of this product for their own particular needs or purposes.**

**This product may be hazardous and should always be used with care and discretion. Every effort has been made to describe all known hazards, but this in no way guarantees the above mentioned hazards are the only hazards present.**

**Flamemaster Corporation, its Affiliates and its Agents, shall in no way be held liable for any damages resulting from handling, using, storing, disposing of, or from contact with this product. User assumes all risk.**

END OF SAFETY DATA SHEET